

The assessment of the city air pollution by automobile transportation and industrial enterprises basing on calculation methods

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Abstract

In the present research the author has gathered together and analyzed the data about the current stationary sources of pollution of the atmosphere, their qualitative and quantitative characteristics, factual emissions and has conducted the on-site investigations of structure and intensity of movable traffic flow on the main highways of Naberezhnye Chelny. On the basis of the received data and for the first time for Naberezhnye Chelny the summary calculation of 143 polluting substances, including those that compose 28 summation groups was made; for each substance the special maps of air polluting level distribution throughout the city were developed and analyzed. Basing on the character of such distribution it became possible to detach two distinctly different groups of polluting substances: mainly contained in the emissions of industrial enterprises and mainly thrown into the atmosphere by automobile transportation. According to the summary calculations of the city air pollution the estimated complex index of atmosphere pollution was determined. © IDOSI Publications, 2013.

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Keywords

Air, Calculation of spreading, Groups of polluting substances, Industrial zone, Maps of spreading, Mobile sources, Polluting substances, Residential area, Stationary sources